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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No	4034-20
	First Name Inventor or Application Identified	Thomas C. Narati
	Title	System and Method for Trading Taxable and Non-Taxable Securities
	Express Mail Label No	EL478364962US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
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- ☒ Fee Transmittal Form
 (Submit an original, and a duplicate for fee processing)
- ☒ Specification [Total Pages 22]
 (preferred arrangement as set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- ☒ Drawing(s) (35 USC 113) [Total Sheets 4]
- Oath or Declaration [Total Pages 2]
 - ☒ Newly executed (original or copy)
 - ☐ Copy from a prior application (37 CFR 1.63(d))
 (for continuation divisional with Box 17 completed)
 (Note Box 5 below)
 - ☐ DELETION OF INVENTOR(S)
 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

- ☐ Microfiche Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission
 (if applicable, all necessary)
 - ☐ Computer Readable Copy
 - ☐ Paper Copy (identical to computer copy)
 - ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- ☒ Assignment Papers (cover sheet & documents(s))
- ☐ 37 CFR 3.73(b) Statement ☒ Power of Attorney
 (when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)
 (Should be specifically itemized)
- ☐ Small Entity ☐ Statement filed in prior application, Statements(s) Status still proper and desired (PTO/SB-09-12)
- ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
- ☒ Other: Certification of Mailing

NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

16. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No _____
 Prior application information Examiner Group/Art Unit

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label ☐ (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below

NAME	Leslie Gladstone Restaino, Esq		
ADDRESS	Riker, Danzig, Scherer, Hyland & Perretti LLP Headquarters Plaza One Speedwell Avenue		
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COUNTRY	USA	TELEPHONE	973-538-0800
		FAX	973-359-0984
Name (Print/Type)	Leslie Gladstone Restaino, Esq	Registration No (Attorney/Agent)	38,893
Signature	<i>Leslie Gladstone Restaino</i>	Date	10/16/2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to The Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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<i>Patent fees are subject to annual revision</i> Small Entity payments must be supported by a small entity statement <i>otherwise large entity fees must be paid. See Forms PTO/SB/09-12</i> <i>See 37 C.F.R. § 1.27 and 1.18</i>				Application Number																																																																																																																																																																																																																																																																															
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1 <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: 50-0444 Deposit Account Name: River, Danzig, Scherer, Hyland & Perretti LLP <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. § 1.16 and 1.17				3 ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>105</td> <td>130</td> <td>205</td> <td>65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>127</td> <td>50</td> <td>227</td> <td>25</td> <td>Surcharge - late provision filing fee or cover sheet</td> <td></td> </tr> <tr> <td>139</td> <td>130</td> <td>139</td> <td>130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>147</td> <td>2,520</td> <td>147</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>112</td> <td>920**</td> <td>112</td> <td>920**</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>113</td> <td>1,840**</td> <td>113</td> <td>1,840**</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>115</td> <td>110</td> <td>215</td> <td>55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>116</td> <td>380</td> <td>216</td> <td>190</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>117</td> <td>870</td> <td>217</td> <td>435</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>118</td> <td>1,360</td> <td>218</td> <td>680</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>128</td> <td>1,850</td> <td>228</td> <td>925</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>119</td> <td>300</td> <td>219</td> <td>150</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>120</td> <td>300</td> <td>220</td> <td>150</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>121</td> <td>260</td> <td>221</td> <td>130</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>138</td> <td>1,510</td> <td>138</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>140</td> <td>110</td> <td>240</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>141</td> <td>1,210</td> <td>241</td> <td>605</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>142</td> <td>1,210</td> <td>242</td> <td>605</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>143</td> <td>430</td> <td>243</td> <td>215</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>144</td> <td>580</td> <td>244</td> <td>290</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>122</td> <td>130</td> <td>122</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>123</td> <td>50</td> <td>123</td> <td>50</td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>126</td> <td>240</td> <td>126</td> <td>240</td> <td>Submission of Information Disclosure Stmt.</td> <td></td> </tr> <tr> <td>581</td> <td>40</td> <td>581</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td>40.00</td> </tr> <tr> <td>146</td> <td>690</td> <td>246</td> <td>380</td> <td>Filing a submission after final rejection (37 CFR 1.29(a))</td> <td></td> </tr> <tr> <td>149</td> <td>690</td> <td>249</td> <td>380</td> <td>For each additional invention to be examined (37 CFR 1.29(b))</td> <td></td> </tr> <tr> <td colspan="4"></td> <td>Other fee (specify)</td> <td></td> </tr> <tr> <td colspan="4"></td> <td>Other fee (specify)</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL (1) (\$) 710.00</td> <td colspan="2" style="text-align: right;">SUBTOTAL (3) (\$) 40.00</td> </tr> <tr> <td colspan="4"> 2 EXTRA CLAIM FEES <table border="1" style="width: 100%; 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2 EXTRA CLAIM FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Independent Claims</th> <th>Multiple Dependent</th> <th>Extra Claims</th> <th>Fee From below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>4</td> <td>20</td> <td>1</td> <td>80.00</td> <td>80.00</td> </tr> </tbody> </table> <p>* or number previously paid, if greater, For Reissues, see below</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>103</td> <td>18</td> <td>203</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>102</td> <td>80</td> <td>202</td> <td>40</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>104</td> <td>270</td> <td>204</td> <td>135</td> <td>Multiple dependent claim</td> <td></td> </tr> <tr> <td>109</td> <td>80</td> <td>209</td> <td>40</td> <td>*Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>110</td> <td>18</td> <td>210</td> <td>9</td> <td>*Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL (2) (\$) 80.00</td> <td colspan="2"></td> </tr> </tbody> </table>				Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee From below	Fee Paid	17	4	20	1	80.00	80.00	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	80	202	40	Independent claims in excess of 3		104	270	204	135	Multiple dependent claim		109	80	209	40	*Reissue independent claims over original patent		110	18	210	9	*Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$) 80.00																																																																																																																																																																																																																															
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**SYSTEM AND METHOD FOR TRADING
TAXABLE AND NON TAXABLE SECURITIES**

BACKGROUND OF THE INVENTION

5 Field of the Invention

The present invention relates to a system and method for trading taxable and non-taxable securities and/or financial instruments; and more particularly to a computer-implemented system for automatically executing market orders for Certificates of Deposits, Discount Notes, CMOs, Corporate
10 Bonds, High Yield Bonds, Illiquid Agency Securities, Mortgage Pass-Through Securities, Secondary Zero Instruments, and Municipal Securities.

Description of the Prior Art

New client demands, technological innovations and tighter regulatory
15 controls are changing the shape of the money management industry. A new trend in asset management now provides clients with systems that allow execution of trades without concomitant fees. The evolution of the Internet and the development of new technological capabilities are pressing security houses to develop methods that facilitate the need for electronic trading. In
20 traditional asset management, customers may be advised by financial advisors/investment executives who work with traders to execute securities trades on behalf of the customers. When a customer desire to trade securities, the ability of a trader to communicate efficiently with dealers can be the difference between profitability and un-profitability for the customer.
25 Therefore, the need for highly efficient electronic trading is extremely valuable.

With the growth of electronic trading, however, comes concerns about the lack of price transparency and liquidity of securities. Accordingly, the SEC and other regulatory bodies have called on the National Association of
30 Securities Dealers (NASD) to: (1) adopt rules requiring dealers to report transactions to the NASD and to develop systems to receive and redistribute transactions prices on an immediate basis; and (2) create a system for

transactions to enable regulators to take a proactive role in supervising the corporate debt market rather than only reacting to complaints brought by investors. Levitt, Arthur, Chairman of the United States Securities and Exchange Commission, September 9, 1998, *The Importance of Transparency in America=s Debt Market*, Speech at the Media Studies Center, New York, N.Y. As stated by Chairman Levitt, A[t]ransparency, disclosure and accountability ... are the essential ingredients to confidence. And without [confidence] ... markets can neither sustain long term growth not adapt to a rapidly changing environment. *Ibid*.

10 The prior art has recognized the need to adopt computerized trading systems. U.S. Patent No. 4,942,616 to Linstroth *et al.* discloses an apparatus and method for use by a broker that includes a memory for holding a number of market prices, each corresponding to a security or a commodity. A speech synthesizer provides price quotes to customers over the telephone. The
15 apparatus is also capable of reporting price trigger violations to a pre-determined telephone number.

U.S. Patent No. 5,758,328 to Giovannoli teaches a computerized system and method for forming a computer-based communications network, which includes network buyers or network vendors. The system allows for
20 the processing of requests for quotations for goods and services through at least one central processing unit.

U.S. Patent No. 4,674,044 to Kalmus *et al.* teaches a data processing apparatus that creates an automated trading market for one or more securities. This reference discloses a system that includes means for retrieving the best
25 obtaining bid and asking prices from a remote database.

None of these or other references, however, teach a system or method that includes a price discovery module for sending Requests for Quotes (RFQ) to pre-determined dealers and for receiving/capturing dealer responses to the RFQs. Moreover, the prior art fails to show a system having means for
30 participants to access historical data for price and trade information. In addition, there is needed a system or method that allows a user who sent the

RFQ to either accept the best response and execute the trade as an agent or improve the best response and execute the trade as a principal.

SUMMARY OF THE INVENTION

5 In accordance with the present invention, there are provided tools for pricing and trading fixed income instruments that allows users to provide system participants with optimal buy and sell prices. The present invention also provides a system and method whereby historical data can be accessed by users of the system. In addition, the present invention allows for a sender of
10 an RFQ to either accept the best dealer response and execute a trade as an agent or improve the best response and execute the trade as a principal.

According to a first aspect of the present invention, a computer-implemented system for trading taxable and non-taxable securities comprises
(1) an updatable offering inventory module for tracking, receiving and
15 displaying securities offerings and information; and (2) a price discovery module for forwarding requests for quotations (RFQ's) to at least one dealer, capturing the dealer responses and transmitting the dealer responses for display to the offering inventory module, and executing a trade based upon a best RFQ response.

20 A second aspect of the present invention provides a computer-implemented system for trading taxable and non-taxable securities comprising (1) a computerized workstation for communicating trade information; (2) an updatable offering inventory module for tracking, receiving and displaying securities offerings and information; (3) a price discovery module for sending
25 a request to pre-determined dealers and receiving responses thereto, wherein responses received are communicated for display in the offering inventory module; and (4) an internal module for internal users to access the offering inventory module and price discovery module.

A third aspect of the invention provides a computer-implemented
30 method for trading taxable and non-taxable securities comprising (1) storing information pertaining to the securities available for trading in an updatable offering inventory module; (2) sending a request from a price discovery

module to pre-determined dealers; (3) capturing dealer responses to the request in the price discovery module; (4) transmitting the dealer responses for display in the offering inventory module; and (5) implementing a trade based on the dealer responses.

5 A fourth aspect of the present invention provides a program product, stored on a recordable media, for facilitating the trading of securities. The program product comprises (1) offering inventory means for tracking securities offerings and for receiving and displaying securities information; (2) price discovery means for executing a trade at a best response, wherein
10 requests are sent from the price discovery means to dealers, and wherein dealer responses to the requests are received in the price discovery means and communicated for display in the offering inventory means; and (3) operations means for providing users access to the offering inventory means and the price discovery means.

15

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be more fully understood and further advantages will become apparent when reference is made to the following detailed description of the preferred embodiments of the invention and the
20 accompanying drawings in which:

FIG. 1 depicts a block diagram of a computer system having an automated trading system;

FIG. 2 depicts a block diagram illustrating the relationship between the components of the automated trading system;

25 FIG. 3 depicts a first process flow diagram illustrating system logic for processing a market order, in accordance with the present invention; and

FIG. 4 depicts a second process flow diagram illustrating system logic for processing a market order, in accordance with the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The present invention provides an automated system for trading taxable and non-taxable financial instruments and/or securities such as Certificates of Deposits, Discount Notes, CMOs, Corporate Bonds, High Yield Bonds, Illiquid Agency Securities, Mortgage Pass-Through Securities, Secondary Zero Instruments, and Municipal Securities. The system allows users to obtain current securities offerings and information related thereto, request quotations from selected dealers, and execute a trade based on the dealer response to the request.

Generally stated, the present invention provides a computer implemented system for trading taxable and non-taxable securities comprising an updatable offering inventory module for tracking, receiving and displaying securities offerings; and a price discovery module, for forwarding RFQs to at least one dealer, capturing the dealer responses and transmitting the dealer responses for display in the offering inventory module wherein the system executes a trade based upon a best RFQ.

Users are generally connected to the system by conventional computerized workstations. Such workstations enable user interaction with the various modules of the system. For example, users can obtain information regarding the availability, price and quantity of securities for trade execution.

The offering inventory module provides information pertaining to all securities available for trading by the system including real time price information as provided by a market data feed from conventional sources such as Reuters. If a user desires to obtain securities not contained in the offering inventory module or to sell a particular instrument, the user can send an RFQ, via the price discovery module, to selected or pre-determined dealers. The dealer responses are captured by the price discovery module and transmitted to the offering inventory module where they are displayed. As will be discussed in greater detail below, the type of user (e.g., trader, investment executive, individual customer) dictates the type and quantity of information the user is able to access, as well as their capability to modify the securities offerings or information contained in system.

A system proprietor automatically updates price and quantity information within the system to reflect trade executions, cancellations, modifications or other changes in financial information such as price and quantity. In addition, the system allow traders to manually enter trade orders and update the offering inventory module. Preferably, the system is used by financial advisors on behalf of customers, traders, and individual customers seeking to trade securities. Advantageously, the system is configured to allow a customer and/or trader to trade within a particular brokerage house (e.g., internally) as well as outside of a particular institution (e.g. externally).

The system of the present invention may utilize a combination of mid-range to advanced multiprocessor-based servers, such as Ultra II from Sun Microsystems, utilizing standard operating systems, application software written in C++, Java or a similar language, and Input/Output controllers for connection of the various system components.

The servers may be connected via wide area networks (WAN), local area networks (LAN) or other private networks. The computerized workstations may be connected to the servers by any of the forgoing means as well as by the Internet. The workstations and servers may utilize conventional token ring connectivity for WAN, LAN, or other private networks, or Ethernet, or other conventional communications standards. Where the workstations are connected to the system server via the Internet, connectivity is provided by conventional TCP/IP sockets-based protocol. In this instance, the workstations would utilize an Internet service provider outside the system to establish connectivity to the system server within the system.

With the foregoing in mind, reference is made to FIG. 1 in which is shown a computer system 10 comprising memory 12, input/output interfaces 14, a central processing unit (CPU) 16, external devices/resources 18, and bus 20. Memory 12 may comprise any known type of data storage and/or transmission media, including magnetic media, optical media, random access memory (RAM), read-only memory (ROM), a data cache, a data object, etc. Moreover, memory 12 may reside at a single physical location, comprising

one or more types of data storage, or be distributed across a plurality of physical systems in various forms. CPU 16 may likewise comprise a single processing unit, or it may be distributed across one or more processing units in one or more locations, e.g., on a client and server. I/O interfaces 14 may
5 comprise any system for exchanging information from an external source. External devices 18 may comprise any known type of external device, including a CRT, LED screen, hand held device, keyboard, mouse, voice recognition system, speech output system, printer, facsimile, pager, and the like. Bus 20 provides a communication link between each of the components
10 in the computer system 10 and likewise may comprise any known type of transmission link, including electrical, optical, wireless, etc. In addition, although not shown, additional components, such as cache memory, communication systems, system software, etc., may be incorporated into computer system 10.

15 It is understood that the present invention can be realized in hardware, software, or a combination of hardware and software. As indicated above, the computer system 10 according to the present invention can be realized in a centralized fashion in a single computerized workstation, or in a distributed fashion where different elements are spread across several interconnected
20 computer systems. Any kind of computer system - or other apparatus adapted for carrying out the methods described herein - is suited. A typical combination of hardware and software could be a general purpose computer system with a computer program that, when loaded and executed, controls the computer system 10 such that it carries out the methods described herein. The
25 present invention can also be embedded in a computer program product, which comprises all the features enabling the implementation of the methods described herein, and which - when loaded in a computer system - is able to carry out these methods. Computer program, software program, program, or software, in the present context mean any expression, in any language, code or
30 notation, of a set of instructions intended to cause a system having an information processing capability to perform a particular function either directly or after either or both of the following: (a) conversion to another

language, code or notation; and/or (b) reproduction in a different material form.

Stored in memory 12 is trading system 28. Also shown in FIG. 1 are users 22, which may include traders, investment executives/financial advisors as well as individuals who access the trading system 28 to trade and/or obtain information regarding taxable and non-taxable securities such as Certificates of Deposits, Discount Notes, CMOs, Corporate Bonds, High Yield Bonds, Illiquid Agency Securities, Mortgage Pass-Through Securities, Secondary Zero Instruments, and Municipal Securities. Trading system 28, which is described in further detail below, comprises one or more software programs that provide a system for users to access financial security information, to send Request for Quotes (RFQs) to selected dealers 48 and to capture the dealers' responses to the RFQs.

Referring now to FIG. 2, trading system 28 is shown. In particular, trading system 28 includes module 30, offering inventory module 32, price discovery module 34, security master 62, system proprietor 36 and market data feed 38. Various users 40-42 and 46 can access the trading system 28 and view information pertaining to securities listed in offering inventory module 32. Users 40-42 and 46 who desire to make trades can send RFQs to predetermined dealers 48 from the offering inventory module 32 via the price discovery module 34. The dealer responses are captured by the price discovery module 34 and transmitted for display in the offering inventory module 32. Users can be internal or external to the system. Exemplary internal users include investment executives 41, traders 40 or customers (not shown) who access the trading system 28 through the module 30. Investment executives 42 are external users who generally act on behalf of customers 44. Lastly, external or streetside traders 46 can manually access and update the system to accommodate streetside trades. The external users do not require access to the system through module 30. These users can instead directly access the offering inventory and price discovery modules. It should be understood, however, that other users can exist and the user types recited

herein are not intended to be exhaustive. Moreover, it should be appreciated that customers 44 can access certain aspects of the trading system 28 directly.

The price discovery module 34 enables users to send RFQs, select the best price/response and execute a trade. By way of illustration, where trader
5 40, 46 sends the RFQ, the trader has the capability to accept the best dealer response and execute the trade as an agent or to improve the best response and execute the trade as a principal. It is not enough for a trader to match a best response. Instead, a trader must improve the best response in order to execute as a principal. In addition, all participants (i.e., internal traders 40, internal
10 investment executives 41, external investment executives 42, external traders 46 and dealers 48) have the capability to access the system and view historical data for price and trade information.

Included within the price discovery module 34 is time management system 64, which allows the system to assign firm deadlines for responding to
15 RFQs and for accepting a response to an RFQ. For example, the time management system 64 enforces three time limits: RFQ Exposure Time; Firm Quote Time; and Subject Quote Time. The RFQ Exposure Time is the time limit set for the dealers to respond to an RFQ. The Firm Quote Time is the time limit for a sender of an RFQ to accept or reject a dealer response, or
20 enter into a negotiation. The Subject Quote Time is the time after the Firm Quote Time has elapsed in which a sender of an RFQ can inquire with a dealer as to whether the dealer's response is still valid. The Firm Quote Time helps prevent the automatic loss of a response due to an expired time limit.

The handling and management of RFQs and responses are partially
25 based upon the type of user sending the RFQ. In particular, a trader 40, 46 can generate an RFQ and send it directly to pre-determined dealers 48 (i.e., each dealer is selected in advanced by the sender of the RFQ). An RFQ originating from an investment executive 41, 42 is either sent directly to dealers 48 or routed to a trader 40, 46 for prior review. For an RFQ entered
30 by a trader or investment executive, the user enters the quantity and security information at the offering inventory module 32 using either the trader interface 54 or the investment executive interface 56. In addition to quantity

and security information, the user enters a bid side RFQ for a bid (to sell securities) inquiry for all securities listed in the security master 62 as well as an offer side RFQ for a bid (to sell securities) inquiry for all securities listed in the security master 62 or the offering inventory module 32. The security master 62 specifies the increments of the minimum denomination for the quantity of security.

Trader 40, 46 also has the capability to enter a bid or offer for their own account. Furthermore, trader 40, 46 also can specify the breakdown or pieces for aggregate orders and trading system 28 provides an adjustment for average price. In addition, trader 40, 46 can designate the particular dealers 48 that will receive the RFQ as well as the capability to modify the RFQ Exposure Time, the Firm Quote Time and the Subject Time, up to a pre-determined minimum amount of time. Traders 46 also have the ability to review all pending RFQs. If a sell RFQ is made by an investment executive 41, 42 on behalf of customer 44, the system verifies that the customer 44 owns the position. If not, the system generates an alert indicator which would be sent to investment executive 42.

Trading system 28 tracks time limits using an internal clock device (not shown) and displays messages indicating RFQ status. In addition, trading system 28 validates the settlement date and notifies the trader if the date is non-standard. All orders are automatically processed for standard settlement, that is 1-3 business days after execution. Nevertheless, system 32 can accommodate skip day, corporate or other settlement dates using manual processing. Here, an order with a non-standard settlement date would be forwarded to a trader for review and manual execution. This allows a trader to apply price adjustments to account for financing considerations.

The trading system 28 also distinguishes between bids and offers. For bids, the system automatically sends the RFQ to the price discovery module 34. The RFQ can be flagged for trader review or automatically sent to the selected dealers 48. With respect to offers, trading system 28 determines if the security/financial instrument is in the offering inventory module 32. If so, a message is sent to the trader who posted the item. In addition, price proof

system 60 generates an RFQ to the price discovery module 34 to obtain the best price for the listed item. In this way, the system may also accommodate offers for securities that are not listed in the offering inventory module.

Once an RFQ has been sent, it may be canceled by trader 40, 46
5 during the RFQ Exposure Time. Upon RFQ cancellation, trading system 28 sends notice to the corresponding dealers 48.

Trading system 28 can also accommodate market or day limit orders. Here, the user selects the market or limit. In addition, the user can specify breakdown prices for aggregated orders and the trading system 28 will allow
10 price adjustment for average price.

In responding to an RFQ, dealers 48 need only provide a one-sided quotation. During the RFQ Exposure Time, a trader who sent an RFQ and dealers who responded thereto have the capability to view all responses. However, all responses are anonymous so that a particular dealer 48 cannot be
15 identified. In addition, the trader who sent the RFQ has the last look at the best response in order to afford an opportunity for price improvement. Advantageously, the system parses the responses and allows users to view only the best response (i.e., most competitive bid/offer received).

The system allows users to accept or reject a response to an RFQ and
20 execute a trade thereon. Where appropriate, the system allows the user to enter into price negotiation. That is to say, users may enter limit order to buy and sell specified quantities of securities. In the event of a tie, the first response is awarded the trade. Upon acceptance, trading system 28 retrieves the real time benchmark from the market data feed 38, calculates the executed
25 yield and price, and forwards this to the user. In addition, the system displays delivery instructions to a user with the capability to override default instructions. This allows such users to enter special delivery instructions, pending approval from the system proprietor 36. Once a trade has been executed, a time is stamp applied, and customer and trader positions as well
30 as the offering inventory 32 are updated. Importantly, trading system 28 determines the execution price/yield based on the spread and current benchmark level at the actual time of execution, not at the time of RFQ entry.

The user and dealer whose response was accepted receives confirmation of executed trades. The confirmation includes trade details such as security description, executed price, yield, net settlement amount, delivery date, delivery instructions, and confirmation number. All trade details and RFQ
5 responses representing competitive bids are stored as historical data, which as indicated above, can be accessed by all users and/or dealers. If the trade is external, the trading system 28 facilitates riskless principal transaction. That is, after receiving an order to purchase or sell, the system executes a contemporaneous transaction to offset the order. The system may ascribe
10 taxes to trades when appropriate.

After a trade has been executed, a trader 40, 46 can also cancel the trade or modify any trade details. Investment executives 41, 42, however, may only modify certain non-price, non-settlement dependent trade details. Upon modification or cancellation, trading system 28 generates a confirmation
15 for all parties. Trading system 28 also stores all transaction details and the spread and price/yield calculation at the time of trade execution. Certain segments of this historical information is available upon user query; for example, traders 40, 46 and investment executives 41, 42 can query any executed transaction. All other users may be permissioned access to specific
20 database information. Traders 40, 46 also have the capability to send confidential messages to undisclosed dealers 48. Traders can also access spread history and view all information on their own transactions. However, for transactions by others, the traders will only view price, date and time information. The trader that wins a trade will see all responses, the high bid,
25 the cover and the total number of bids. All others will see the high, low and average bids.

Trading system 28 stores all transaction details including spread history (day, time) and displays spread values, price/yield and benchmark levels for all taxable products. In addition, the spread and price/yield history
30 are updated as transactions take place. Trading system 28 also attaches current spread data to a transaction record when a trade is executed and captures the current existing price (yield) of the desired benchmark at the time

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of the transaction. All transaction details are stored within trading system 28 for seven years but can be displayed for a period of six months. Trading system 28 also provides access to static data such as security, user, and dealer files, and provides conversion from price to yield. Moreover, the system 28 supports all reporting mechanisms for high yield and municipal securities; for example, high yield stocks are reported to NASDAQ via FIPS and municipal stocks are reported to the MSRB via NSCC.

The offering inventory module 32 lists all securities offerings and information made available to the users both internally and by participating firms. External investment executives 42 and external traders 46 directly access offering inventory module 32 in order to gain access to the trading system 28 and to send RFQs to the pre-determined dealers 48 through the price discovery module 34. In contrast, internal traders 40 and internal investment executives 41 use the internal module 30 to access the offering inventory module 32 and the price discovery module 34. As described above, internal investment executives 41 and internal traders 40 will have the same capabilities for accessing and updating the securities offered and the security information in offering inventory module 32 as the external investment executives 42 and external traders 46, respectively. In addition, internal users 40, 41 can send RFQs 52 by accessing the trading system 32 through the internal module 30.

In accessing offering inventory module 32, investment executives 41, 42 only have the ability to view what is listed in the offering inventory module 32 while traders 40, 46 have the capability to both view and modify price and quantity information. Since traders 40, 46 have different capabilities than external or internal investment executives 40, 42, the offering inventory module 32 has separate interfaces 54, 56 for each user type. These separate interfaces allow users to access and interact with trading system 28 according to their pre-determined entitlements determined by system proprietor 36.

Each firm listing securities in the offering inventory module has the capability to specify whether a particular security is shown only to their own

customers 44 or to all users. In addition, traders 40, 46 can offer two levels of pricing: a first level comprising the offering price for external users; and a second level comprising the offering price for internal users.

Investment executives 41, 42 and traders 40, 46 accessing the offering
5 inventory module 32 can request a realtime display of updated offerings in the offering inventory module 32 and have the capability to enter market or limit orders based thereon. In addition, investment executives 41, 42 can submit market orders for price improvement based on the offering inventory module 32. All users 40-42 and 46 can also access the security master 62 to obtain
10 details of securities.

As indicated above trading system 28 affords traders 40, 46 greater capabilities than investment executives 41, 42. In particular, traders 40, 46 can highlight securities that are believed to be the best buys for the investment executives 41, 42. In addition, traders 40, 46 can manually
15 indicate an issue that should have the quantity automatically updated as a result of trade execution. Traders 40, 46 can also manually enter a better offering inventory price, which is updated in the offering inventory module 32 if it is better than the current price. Traders 40, 46 can also specify a benchmark, specify price based on size categories, and indicate the length of
20 time that a price is Afirm.@ In addition, they can indicate that an issue is a trading desk priority. Advantageously, system 28 differentiates between internal 40, 41 and external users 42, 44 and 46 by providing different means of access.

In accordance with the invention, live prices have precedence over
25 subject prices. By way of example, system 28 tracks prices for a certain length of time after which the price becomes subject and no longer eligible for automatic execution without approval from the user posting the price. When an order is entered from the offering inventory module 32, the system first determines whether the price/yield is subject or firm. If firm, a trade is
30 executed and confirmation sent. However, if subject, the order is transmitted to the price discovery module 34 for RFQ by price proof system 60. In addition, an order is sent to the traders listing the offering. Since the system

always displays the best price, the participant posting the price will receive the order. The trader then has the option to fill the order at the limit price, counter the price with a new level, or indicate that he or she is not longer a seller of that issue.

5 The trading system 28 links each offering to the posting user; however, traders 40, 46 can only update their own respective offerings. The system 28 automatically updates to reflect automatic and manual transactions. In particular, a trader's securities and quantities position is automatically updated provided there is sufficient quantity available for trading and the
10 trader's position is long. The price/yield is also automatically updated based on the spread that is entered by the trader 40, 46. The price update is based on the market feed 38 and the spread entered by the trader 40, 46 posting the offering. The price shown is equal to the price calculated at the time the inventory is displayed. Advantageously, the system 28 accommodates price
15 differentials for different size offerings. By way of example, lots of 1-25 could be offered at +25 basis points (bps), lots of 26-50 could be offered at +27 bps, and lots of 51-100 could be offered at +30 bps. As readily understood, basis points are equivalent to one one-hundredth of one percent of yield, and are the smallest measure used in quoting yields on bonds and notes.
20 for example, an addition of 40 basis points to a yield of 7.50% increases the yield to 7.90%. basis points are normally used when quoting yields on bonds or notes. As indicated above, all price updates to the offering inventory module 32 are real time from the market data feed 38. In addition, when an order is entered from the offering inventory module 32, trading system 28
25 prompts the user for approval prior to executing.

 The system also provides a sales credit for prices based upon certain criteria established by participating broker dealers. Conversely, fee based, non-commission accounts do not include a sales credit. Where these criteria are attained, trading system 28 calculates the net price (based on the best
30 available price) without the sales credit. Investment executives 41, 42 accessing the offering inventory module 32 will view the base price without the sales credit as well as base price sales credit, net price and yield after

sales credit. In contrast, the system captures the best available price plus any applicable sales credit to derive net price for other users.

In accordance with the present invention, real time risk management features are provided. For example, the system can track securities bought and sold in different maturity sectors as determined by trader input. This includes the calculation of duration and 10 year equivalent for each maturity sector (including accrued interest) based on trader input security and value.

FIG. 3 illustrates a first process flow diagram 51 in which an RFQ is sent from price discovery module 34. In particular, an inquiry is entered 53 in the offering inventory module and sent to the price discovery module 55. The system forwards RFQ to pre-determined dealers 57, and dealer responses are collected in the price discovery module 59, and displayed in the offering inventory module 61. The RFQ sender then has the choice whether to accept or reject the dealer response 63. If the response is accepted, the trade is executed 65, the system is updated 67 and the settlement is processed 69. Where the response is rejected, the process is terminated.

FIG. 4 illustrates a second process flow diagram 70 detailing the RFQ process having time limits established by time management system 64. First, a user sends an RFQ 72, thereby starting the RFQ Exposure Time. The selected dealers which receive the RFQ 74 respond 76 by sending a quote. Assuming the response was sent within the RFQ Exposure Time limit, the quotes are delivered 80, but only the best quote is displayed 82. If the user accepts the offer 84, the system determines whether the acceptance occurred prior to expiration of the Firm Quote Time limit. If so, the trade is executed. If not, the user requests whether the quote is still valid 88. The time which the sender has to inquire whether a quote is still valid is known as the Subject Time. If the inquiry was made within the Subject Time and the dealer indicates the price is still valid 90, the trade is executed 92. Once the trade is executed, confirmation is sent to the users 94, the system is updated 96 and settlement processing initiated 98.

Having thus described the invention in rather full detail, it will be understood that such detail need not be strictly adhered to but that various

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changes, modifications may suggest themselves to one skilled in the art, all falling within the scope of the present invention as defined by the subjoined claims.

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CLAIMS

1. A computer-implemented system for trading taxable and non-taxable Certificates Of Deposit, Discount Notes, CMO's Corporate Bonds, High Yield Bonds, Illiquid Agency Securities, Mortgage Pass-Through, Securities, Secondary Zero Instruments and Municipal Securities, comprising:
5 an updatable offering inventory module for tracking, receiving and displaying securities offerings and information; and
a price discovery module for forwarding requests for quotations (RFQ's) to at least one dealer and capturing and transmitting the dealer
10 responses for display in the offering inventory module, and executing a trade based on a best RFQ response.

2. The computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, further comprising an internal module
15 which affords internal users access to the offering inventory module and price discovery module.

3. A computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, wherein the securities offerings and
20 information in the offering inventory module is automatically updated.

4. A computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, wherein the system allows a sender of a RFQ to improve the best response and execute a trade as a principal.
25

5. A computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, wherein the dealers receiving the RFQ are pre-determined by a sender.

6. A computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, wherein selected users can view all of the responses in the offering inventory module.
30

7. A computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, wherein non-selected users can only view a best response in the offering inventory module.

5

8. A computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, wherein the price discovery module includes a time management system.

10

9. The computer-implemented system for trading taxable and non-taxable securities as recited by claim 8, wherein the time management system comprises:

means for setting a first time limit that determines an amount of time for dealers to respond to the requests;

15

means for setting a second time limit that determines an amount of time for a sender of a request to decide whether to accept a dealer's response; and

20

means for setting a third time limit that determines an amount of time, after the second time limit has passed, for the sender to inquire whether the response is still valid.

25

10. The computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, further comprising a pricing proof system for determining the best response for a security.

30

11. The computer-implemented system for trading taxable and non-taxable securities as recited by claim 1, wherein the securities offering and information in the offering inventory module is manually updated.

12. A computer-implemented system for trading taxable and non-taxable Certificates of Deposit, Discount Notes, CMO's Corporate Bonds,

High Yield Bonds, Illiquid Agency Securities, Mortgage Pass-Through Securities, Secondary Zero Instruments and Municipal Securities, comprising:

- a computerized workstation for communicating trade information;
- an updatable offering inventory module for tracking, receiving and
- 5 displaying securities offerings and information;
- a price discovery module for sending a request for quotes (RFQ's) to pre-determined dealers and receiving responses thereto, wherein responses received are transmitted for display in the offering inventory module; and
- an internal module for internal users to access the offering inventory
- 10 module and price discovery module, wherein the system executes a trade pursuant to a best RFQ.

13. The computer-implemented system for trading taxable and non-taxable securities as recited by claim 12, wherein the price discovery module
- 15 includes a time management system comprising:

- means for setting a first time limit that determines an amount of time for dealers to respond to the requests;
- means for setting a second time limit that determines an amount of time for a sender of a request to decide whether to accept a dealer's response;
- 20 and
- means for setting a third time limit that determines an amount of time, after the second time limit has passed, for the sender to inquire whether the response is still valid.

- 25 14. The computer-implemented system for trading taxable and non-taxable securities as recited by claim 12, wherein the securities offerings and securities information in the offering inventory database is automatically updated.

- 30 15. The computer-implemented system for trading taxable and non-taxable securities as recited by claim 12, wherein the securities offerings and information in the offering inventory database is manually updated.

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16. A computer-implemented method for trading taxable and non-taxable securities, comprising the steps of:

- storing information pertaining to the securities available for trading in
- 5 an updatable offering inventory module;
- sending a request from a price discovery module to pre-determined dealers;
- capturing dealer responses to the request in the price discovery module;
- 10 transmitting the dealer responses for display in the offering inventory module; and
- implementing a trade based on the dealer responses.

17. A program product, stored on a recordable media, for facilitating

15 the trading of securities, comprising:

- offering inventory means for tracking, receiving and displaying securities offerings and information;
- price discovery means for sending a request for quotes (RFQ's) to dealers, wherein dealer responses to the RFQ's are received by the price
- 20 discovery means and transmitted for display in the offering inventory means;
- and
- operations means for providing users access to the offering inventory means and the price discovery means.

ABSTRACT

A system for trading Certificates of Deposits, Discount Notes, CMOs, Corporate Bonds, High Yield Bonds, Illiquid Agency Securities, Mortgage Pass-Through Securities, Secondary Zero comprises an updatable offering inventory module and a price discovery module. The system allows users to send Request for Quotes (RFQs) to pre-determined dealers and capture dealer responses thereto. Traders who send RFQs have the ability to accept the best dealer response and execute a trade as an agent or to improve the best dealer response and execute the trade as a principal.

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FIG. 2

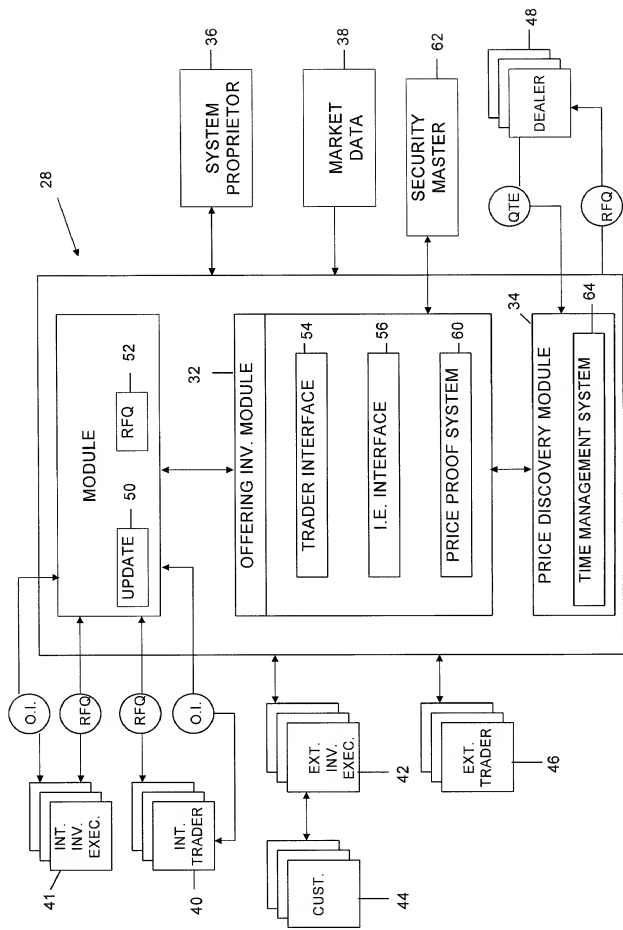


FIG. 3

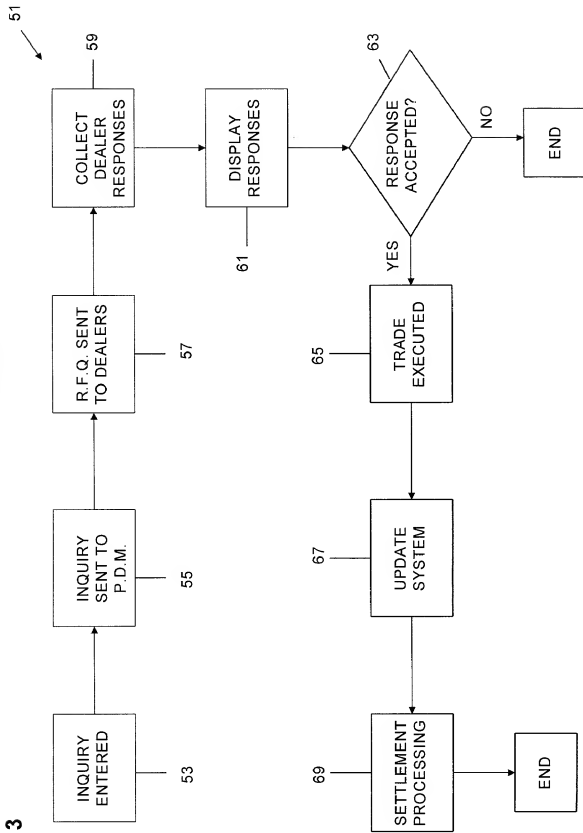
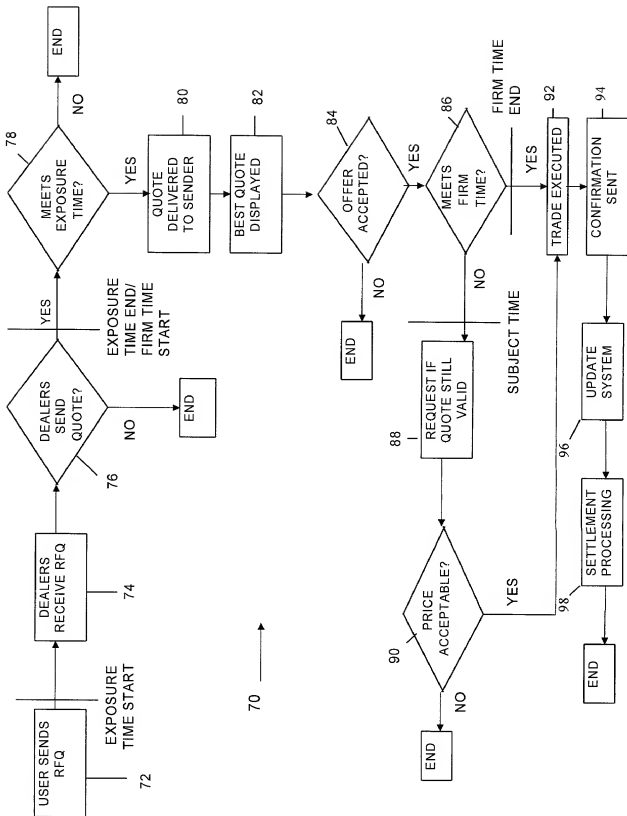


FIG. 4



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DECLARATION FOR PATENT APPLICATION SOLE OR JOINT

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention titled:

SYSTEM AND METHOD FOR TRADING TAXABLE AND NON-TAXABLE SECURITIES

the specification of which is attached hereto.

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS.

I ACKNOWLEDGE THE DUTY TO DISCLOSE INFORMATION WHICH IS MATERIAL TO THE EXAMINATION OF THIS APPLICATION IN ACCORDANCE WITH TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications listed below and, INsofar AS THE SUBJECT MATTER OF EACH OF THE CLAIMS OF THIS APPLICATION IS NOT DISCLOSED IN THE PRIOR UNITED STATES APPLICATION IN THE MANNER PROVIDED BY THE FIRST PARAGRAPH OF TITLE 35, UNITED STATES CODE, §112, I ACKNOWLEDGE THE DUTY TO DISCLOSE MATERIAL INFORMATION AS DEFINED IN TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a) WHICH OCCURRED BETWEEN THE FILING DATE OF THE PRIOR APPLICATION AND THE NATIONAL OR PCT INTERNATIONAL FILING DATE OF THIS APPLICATION:

(Application Serial Number) (Filing Date) (STATUS: Patented, Pending, Abandoned)

(Application Serial Number) (Filing Date) (STATUS: Patented, Pending, Abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected herewith (List name and registration number).

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DECLARATION FOR PATENT APPLICATION—SOLE OR JOINT (Continued)

Attorney's Docket No.: 4034-20 — Page 2

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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FULL NAME OF SECOND JOINT INVENTOR _____

INVENTOR'S SIGNATURE _____

Date _____

RESIDENCE _____

CITIZENSHIP _____

POST OFFICE ADDRESS _____

FULL NAME OF THIRD JOINT INVENTOR _____

INVENTOR'S SIGNATURE _____

Date _____

RESIDENCE _____

CITIZENSHIP _____

POST OFFICE ADDRESS _____

FULL NAME OF FOURTH JOINT INVENTOR _____

INVENTOR'S SIGNATURE _____

Date _____

RESIDENCE _____

CITIZENSHIP _____

POST OFFICE ADDRESS _____

FULL NAME OF FIFTH JOINT INVENTOR _____

INVENTOR'S SIGNATURE _____

Date _____

RESIDENCE _____

CITIZENSHIP _____

POST OFFICE ADDRESS _____